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### TRANSMITTAL FOR CERTIFICATE OF CORRECTION

Attention Certificate of Corrections Branch Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

BI

Re:

U.S. Patent No. 6,803,027, issued 10/12/2004

Inventor(s): Virkar et al.

MOLECULAR DECOMPOSITION PROCESS FOR THE SYNTHESIS OF

NANOSIZE CERAMIC AND METALLIC POWDERS

Attorney Docket No. 23347.PCT.US

Dear Sir/Madam:

Pursuant to 37 C.F.R. 1.322 the Patent Owner requests the issuance of a Certificate of Correction to correct an error in the priority data. Transmitted herewith is a Certificate of Correction containing the proposed correction and a copy of the cover page of the corresponding PCT publication no. WO 00/24676 showing correct priority date.

Since the error was introduced by the Patent Office, the Applicant respectfully requests that the fee under 37 C.F.R. 1.323 not be applied in this case.

Dated this 2 day of December, 2004.

Respectfully submitted,

m, of own state

M. Wayne Western Attorney for Applicant Registration No. 22,788 Certificate
DEC 0 9 2004

of Correction

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MWW/ESE/em Enclosures

#### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Emily Mecham

DATE OF DEPOSIT: 2/3/04

## UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO

: 6,803,027 Bi

DATED

: 10/12/2004

INVENTOR(S) : Virkar et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Item (22) of the cover page replace,

--Oct. 26, 1998--

with

"Oct. 26, 1999."

MAILING ADDRESS OF SENDER:

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PATENT NO.

6,803,027

No. of additional copies



# WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



### TERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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us

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(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

### Published

With international search report.

(54) Title: A MOLECULAR DECOMPOSITION PROCESS FOR THE SYNTHESIS OF NANOSIZE CERAMIC AND METALLIC POWDERS

#### (57) Abstract

A process is disclosed for forming a nanosize ceramic powder. A precursor ceramic material is formed of a fugitive constituent and a non-soluble constituent in a single phase. The precursor is contacted with a selective solvent (water, acid, etc.) to form a solution of the fugitive constituent in the solvent and a residue of the non-soluble constituent. The precursor is sufficiently reactive with the solvent to form the solution of the fugitive constituent in the solvent and form the nondissolved residue of the non-soluble constituent. The precursor material and the non-soluble residue are sufficiently insoluble in the solvent such that there is insufficient precursor material and non-soluble residue in solution to deposit and precipitate upon the residue of the non-soluble-constituent. The fugitive constituent is sufficiently soluble in the solvent such that the precursor reacts with the solvent to form the solution of the fugitive constituent without precipitation and deposition of fugitive constituent upon the residue of the non-soluble constituent in the form of nanosize particles. After the fugitive constituent is dissolved the selective solvent containing the fugitive constituent is removed from the residue. The residue remains in the form of a nanosize powder of the non-soluble constituent.